

ABSTRACT

A ferritic chromium steel comprising 0.03 to 0.1% of carbon, 0.2 to 0.9% of silicon, 0.3 to 1% of manganese, 13 to 20% of chromium, up to 0.5% of nickel, 0.1 to 1.5% of molybdenum, 0.1 to 0.5% of copper, 0.03 to 0.05% of nitrogen, less than 10 ppm of boron, up to 0.01% of titanium, 0.01 to 0.10% of niobium, 0.02 to 0.25% of vanadium and up to 0.002% of aluminum, remainder iron, is distinguished by a high corrosion resistance and is suitable as a material for cold-formed spring elements with improved spring properties and a high dimensional accuracy, in particular for leaf springs, spring rails for windscreen wipers and reed lamellae for textile machines, oil stripper rings for internal combustion engines and sealing lamellae for hydraulic installations.